

Date: Sat, 24 Jul 93 04:30:07 PDT  
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>  
Errors-To: Info-Hams-Errors@UCSD.Edu  
Reply-To: Info-Hams@UCSD.Edu  
Precedence: Bulk  
Subject: Info-Hams Digest V93 #893  
To: Info-Hams

Info-Hams Digest                      Sat, 24 Jul 93                      Volume 93 : Issue    893

Today's Topics:

                  ARRL BULLETIN 71    ARLB071  
                  ARRL BULLETIN 72    ARLB072  
                  CW in weird places  
                  PROPAGATION FORECAST BULLETIN 27    ARLP027  
                  Radio Shack  
          STILL waiting for your license? Read this and weep!  
          Super Morse problem in Windows

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>  
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

-----  
Date: Thu, 22 Jul 93 22:33:39 GMT  
From: europa.eng.gtefsd.com!howland.reston.ans.net!math.ohio-state.edu!  
magnus.acs.ohio-state.edu!cis.ohio-state.edu!mstar!n8emr!bulletin@uunet.uu.net  
Subject: ARRL BULLETIN 71    ARLB071  
To: info-hams@ucsd.edu

=====  
|     Automatic relayed from packet radio via                      |  
|                      N8EMR's Ham BBS, 614-895-2553                      |  
=====

ZCZC AG13  
QST DE W1AW  
ARRL BULLETIN 71    ARLB071  
FROM ARRL HEADQUARTERS  
NEWINGTON CT    JULY 8, 1993

TO ALL RADIO AMATEURS

SB QST ARL ARLB071  
ARLB071 CONTEST WEEKEND

YOUR HEADQUARTERS STATION, W1AW, WILL BE ACTIVE IN THE IARU CONTEST THIS WEEKEND, FROM 1200Z SATURDAY JULY 17 TO 1200Z SUNDAY THE 18TH. REGULARLY SCHEDULED BULLETINS AND CODE PRACTICES WILL BE SUSPENDED FOR THIS OPERATION. THE CONTEST EXCHANGE IS RST, AND YOUR ITU ZONE. WE HOPE TO WORK YOU.  
NNNN

-----  
Date: Thu, 22 Jul 93 22:33:50 GMT  
From: europa.eng.gtefsd.com!howland.reston.ans.net!math.ohio-state.edu!  
magnus.acs.ohio-state.edu!cis.ohio-state.edu!mstar!n8emr!bulletin@uunet.uu.net  
Subject: ARRL BULLETIN 72 ARLB072  
To: info-hams@ucsd.edu

=====  
| Automatic relayed from packet radio via |  
| N8EMR's Ham BBS, 614-895-2553 |  
=====

ZCZC AG14  
QST DE W1AW  
ARRL BULLETIN 72 ARLB072  
FROM ARRL HEADQUARTERS  
NEWINGTON CT JULY 9, 1993  
TO ALL RADIO AMATEURS

SB QST ARL ARLB072  
ARLB072 902 MHZ STUDY SOUGHT

902 MHZ STUDY SOUGHT

'ADOPT NO RULES WITHOUT FURTHER STUDY,' THE ARRL HAS RECOMMENDED TO THE FCC, IN A COMMISSION PROPOSAL TO EXPAND THE USE OF AUTOMATIC VEHICLE MONITORING (AVM) SYSTEMS IN THE 902-928 MHZ BAND.

THE PROPOSAL, IN PR DOCKET 93-61, WOULD ALLOW THE EXPANSION OF AVM SYSTEMS THROUGH THE CREATION OF A NEW LOCATION AND MONITORING SERVICE (LMS) IN THE 902-928 MHZ BAND. AMATEURS ALREADY SHARE THIS BAND WITH GOVERNMENT RADIOLOCATION, FIXED, AND MOBILE SERVICES, IN ADDITION TO INDUSTRIAL, SCIENTIFIC, AND MEDICAL (ISM) EQUIPMENT AND VARIOUS NON-LICENSED, LOW-POWER 'PART 15' DEVICES.

THE FCC SAID IN ITS NOTICE OF PROPOSED RULE MAKING THAT SUCH AN EXPANSION OF AVM IN THIS FREQUENCY RANGE ''COULD LEAD TO RAPID CONGESTION OF AVAILABLE SPECTRUM'' AND ASKED CURRENT USERS OF THE BAND IF THEY COULD HANDLE ANY INCREASED CONGESTION.

''IF NOT,'' THE FCC SAID, ''COMMENTERS SHOULD OFFER POTENTIAL SOLUTIONS, SHORT OF REMOVING PART 15 USERS AND AMATEUR OPERATIONS FROM THE BAND, RESTRICTING WHERE SUCH USERS COULD OPERATE IN THE BAND, OR PLACING STRICTER LIMITATIONS ON THE OPERATIONS IN THIS BAND.''

THE LEAGUE SAID THAT NO ACTION SHOULD BE TAKEN UNTIL THE FCC HAS STUDIED THE POTENTIAL FOR INTERACTION BETWEEN AVM AND WIND PROFILER RADAR SYSTEMS, THE SUITABILITY OF AVM OPERATIONS FOR HIGHWAY SAFETY SYSTEMS IN A CROWDED RF ENVIRONMENT, AND THE ALTERNATIVE TECHNOLOGIES AVAILABLE FOR THE SAME PURPOSE SERVED BY AVM AND LOCATION AND MONITORING SERVICES.

MORE INFORMATION IS IN QST FOR MAY 1993, PAGE 88.  
NNNN

-----  
Date: Thu, 22 Jul 93 18:56:17 GMT  
From: mercury.hsi.com!a3bee2!cyphyn!randy@uunet.uu.net  
Subject: CW in weird places  
To: info-hams@ucsd.edu

gary@ke4zv.uucp (Gary Coffman) writes:  
: In article <1993Jul21.135010.15960@mkso1.dseg.ti.com> craigs@dseg.ti.com writes:  
: >  
: >I've been hearing it when there is no program audio (i.e., dead air). There's still  
: >a signal there, but no audio (typically breaks to a commercial, breaks between  
: >stories, etc.) It is NOT the high speed tone bursts of the audio sync signal,  
: >unless they've taken to morse code for syncing :). Also, the morse audio  
: volume is just low enough to be on the fringes of my ability to pick it out from  
: the noise.  
: >I've noticed it most on CNN or HNN, but it has made appearances on MTV, the  
Weather  
: >Channel, etc. The few times I have been able to pick it out, it sounded like  
: >five letter/number groups..... Curious.  
:  
: There \*are\* pirate signals on the satellites. Some hug the transponder  
: edges, some hug the edge of existing signals. They're difficult to  
: identify and track down if they remain low amplitude and hug next to  
: an existing wideband signal. Spies? Who knows.  
:



PROBABLY WON'T PASS ABOVE 100 UNTIL AUGUST.

THE AVERAGE SOLAR FLUX FOR MAY WAS 118.7, AND JUNE WAS 109.4. THIS TRACKS CLOSELY WITH A PROJECTION FOR THE REST OF THIS SOLAR CYCLE RELEASED LAST MONTH, BASED ON PREVIOUS SOLAR CYCLES. IT SHOWS SOLAR ACTIVITY RISING GRADUALLY AFTER AUGUST, REACHING A SHORT TERM TEMPORARY PEAK AROUND 127 IN APRIL, 1994. THE PROJECTED SOLAR FLUX DOES NOT FALL TO THE CURRENT LEVEL UNTIL JANUARY, 1995. THEN IT CONTINUES DOWN TO A SOLAR MINIMUM AROUND THE START OF 1997, WITH SOLAR FLUX OF 72. THE NEXT CYCLE RISES QUICKLY, REACHING THE CURRENT LEVEL AROUND THIS TIME IN 1998, AND THEN REACHES THE NEXT PEAK IN AUGUST, 2000.

SUNSPOT NUMBERS FROM JULY 1 THROUGH 7 WERE 102, 73, 95, 104, 99, 80 AND 63, WITH A MEAN OF 88. 10.7 CM FLUX WAS 108.1, 109.9, 110.5, 106.5, 100.5, 95.2 AND 93.4, WITH A MEAN OF 103.4.\_

THE PATH PROJECTION FOR THIS WEEK IS FROM THE CENTER OF THE CONTINENTAL UNITED STATES TO HAWAII.

80 METERS SHOULD BE OPE\_ FROM 0430 TO 1300Z, WITH THE BEST PROPAGATION FROM 0730 TO 1030Z. 40 METERS SHOULD BE OPEN FROM 0300 TO 1430Z, PEAKING FROM 0530 TO 1130Z. 30 METERS SHOULD BE OPEN FROM 0100 TO 1630Z, WITH THE BEST TIME FROM 0430 TO 1230Z. 20 METERS SHOULD BE OPEN 24 HOURS PER DAY OVER THIS PATH, PEAKING FROM 0430 TO 0900Z, AND THE WORST TIME FROM 1930 TO 2230Z. 17 METERS SHOULD BE OPEN FROM 1530 TO 0700Z, WITH THE BEST PERIOD FROM 0100 TO 0600Z. 10, 12 AND 15 METERS DO NOT LOOK GOOD AT THIS TIME FOR THIS PATH.\_  
NNNN

-----  
Date: Thu, 22 Jul 93 18:45:30 GMT  
From: mercury.hsi.com!a3bee2!cyphyn!randy@uunet.uu.net  
Subject: Radio Shack  
To: info-hams@ucsd.edu

mcovingt@aisun3.ai.uga.edu (Michael Covington) writes:  
: In article <17946@news.duke.edu> jbs@ee.ee.duke.edu (Joe B. Simpson) writes:  
: >In article <CAH0Ir.1Hp@egr.uri.edu> swamik@orca.NoSubdomain.NoDomain (Swami  
Kumaresan) writes:  
: >  
: ><I called the other day to ask if RS had a certain transistor. The salesdroid  
: ><said "Yes, it can be found in our cross reference..."  
: ><I said: "Could u please look up (whatever it was) for me..."  
: ><salesdroid: "Oh, I, uh, I have a line of customer waiting...but  
: >< u can look it up if u want..."  
: ><I said: "I am sitting at home, abt 10 miles from ur store, hence

```

: ><          I cannot look it up from here, maybe u missed that..."
: ><
: ><Perhaps that was rude, but this is not the first instance a RS saledroif has
: ><been to lazy to help me over the phone.
: >
: >Maybe he had a bunch of customers waiting?
:
: Touche'! Why should a phone caller be given priority over people who
: are actually standing there in the store?
:
: One of my pet peeves is being ignored in a store because someone has
: called on the phone -- some people give _instant_ service to phone
: callers, but almost no service to the people who are actually shopping
: in the store!
: --
: :- Michael A. Covington, Associate Research Scientist      : *****
: :- Artificial Intelligence Programs      mcovingt@ai.uga.edu : *****
: :- The University of Georgia            phone 706 542-0358 : * * *
: :- Athens, Georgia 30602-7415 U.S.A.    amateur radio N4TMI : ** *** ** <><
Well! Then why should Radio Shack have any telephones then?
  Why not just put all the stuff they sell in a vending-machine, and let it go
at that?
--

```

Randy,KA1UNW                      If you get a shock while servicing your equipment  
                                   DON'T JUMP! You might break an expensive tube.

-----

Date: Thu, 22 Jul 93 15:22:56 GMT  
 From: olivea!charnel!csusac!usenet@decwrl.dec.com  
 Subject: STILL waiting for your license? Read this and weep!  
 To: info-hams@ucsd.edu

In article <CAJ6FH.3Ds@eis.calstate.edu> jherndo@eis.calstate.edu (John Herndon)  
 writes:

```

>I haven't looked into the "allowed length of time" that the VE and ARRL
>can hold the application. If it is 10 days per section, then I can't see
>any excuse for the ARRL holding on to the application for over 10 days.
>

```

I thought the VE and ARRL was suppose to alleviate the FCC backlog  
 Guess now they also seem to need to be alleviated !  
 8 weeks and still waiting.....

-----

Date: 22 Jul 93 20:18:40 GMT

From: ogicse!uwm.edu!linac!mgweed!cbnewsj!k2ph@network.ucsd.edu  
Subject: Super Morse problem in Windows  
To: info-hams@ucsd.edu

-----  
Date: 22 Jul 1993 19:34 CDT  
From: nntp.ucsb.edu!mustang.mst6.lanl.gov!nntp-server.caltech.edu!  
elroy.jpl.nasa.gov!swrinde!menudo.uh.edu!jane.uh.edu!st2cm@network.ucsd.edu  
To: info-hams@ucsd.edu

References <22i5vt\$9k6@techbook.techbook.com>, <CAIpCC.MsL@dartvax.dartmouth.edu>,  
<1993Jul21.153450.28504@rsg1.er.usgs.gov>uh.edu  
Subject : Re: STILL waiting for your license? Read this and weep!

In article <1993Jul21.153450.28504@rsg1.er.usgs.gov>, bodoh@dgg.cr.usgs.gov (Tom Bodoh) writes...

>In article <CAIpCC.MsL@dartvax.dartmouth.edu>, Kenneth.E.Harker@Dartmouth.Edu  
(Kenneth E. Harker) writes:

>|> In article <22i5vt\$9k6@techbook.techbook.com>

>|> genew@techbook.techbook.com (Gene Wolford) writes:

>|>

>|> The VEC that gave me my test told me "oh,

>|> around eight to ten weeks..." What he should have said was "oh, eight

>|> to ten weeks after the ARRL wastes three weeks and \$5.60 of your

>|> money..."

>

Since when do VECs give exams? I though only VEs did that. (by the way, I  
\*am\* a VE, accccredited under the ARRL, W5YI, and DeVry VECs...and no, I am  
not a member of the League, not do I intend to be)

--Robert/WA3J

-----  
Date: 22 Jul 93 13:02:51 EDT  
From: world!ksr!jfw%ksr.com@uunet.uu.net  
To: info-hams@ucsd.edu

References <930721074810.eb4@MAR65.MAR.ORA.FDA.GOV>, <29706@ksr.com>,  
<1993Jul22.071143.4398@ke4zv.uucp>  
Subject : Re: S Meters and Modern Technology (was Re: TS50)

gary@ke4zv.uucp (Gary Coffman) writes:

>In article <29706@ksr.com> jfw@ksr.com (John F. Woods) writes:

>>With a microprocessor-driven S meter, the calibration process would be simple:  
>> [ factory calibrates an NVRAM table ]  
>Such an open loop system is the hard way to establish reliable system  
>gain characteristics. Professional color camera systems have a similar  
>problem. ...  
>It should be relatively simple to implement a log stepped amplitude  
>reference in a radio and have the radio automatically insert and  
>measure this reference at each band change, or power up. That would  
>give it a self calibration check that would compensate automatically  
>for variations in stage gain.

Something like that occurred to me after I posted my article, but I see a couple of (solvable) difficulties. First, transceivers usually recycle many stages between transmit and receive, so being able to generate a carrier while receiving (probably) means duplicating those stages (though perhaps in simpler forms). Second, you want to make sure the calibrating signal stays in calibration, otherwise its futile. I doubt that it's going to be easy to guarantee that one can generate an exactly 50uV signal at each of (say) 100 frequencies scattered (as appropriate) throughout 1.8 to 30MHz; but it's certainly not impossible.

It certainly would add some cost to the setup. Given the economics of commercial rigs, I think it would add a substantial cost; on the other hand, for a progressive homebrew setup, it might not be so bad (and could even be left out of one's rig if you knew someone else who had built the calibration circuitry, and could haul your rig over next to theirs every couple of months).

Hmm. Maybe there's a simpler way, though. If a 100KHz crystal calibrator could be built with an easily-guaranteed spectrum, then you could calculate the strength of the (say) 101st harmonic and go from there. But it seems unlikely to be able to build several hundred of these and be able to specify the strength of the 295th harmonic to (say) 5% for each and every unit.

John, WB7EEL

-----  
Date: Thu, 22 Jul 93 18:38:23 GMT  
From: mnemosyne.cs.du.edu!nyx!whester@uunet.uu.net  
To: info-hams@ucsd.edu

References <22d93n\$khj@news.bu.edu>, <21870041@hplvec.LVLD.HP.COM>,  
<CAKEoI.MBF@cbnews.cb.att.com>e  
Subject : Re: Super Morse problem in Windows

It seems that this problem is related to the way that Windows shares CPU cycles between applications that are running. Even if only one DOS application is running, and it has been set up in the PIF file for



exclusive foreground priority, the Windows itself takes CPU slices of time.

Windows is not a pre-emptive, prioritized, multi-tasker. It is only a simple multi-tasker sharing CPU time cycles. (This is one reason why it is not easy to use Windows in a real-time industrial control system).

SuperMorse depends on having continuous, uninterrupted, CPU timing cycles.

Anyone with more in-depth knowledge of Windows multi-tasking feel free to jump in here....

Bill

--

Bill Hester, Ham Radio N0LAJ, Denver CO., USA - N0LAJ@W0LJF.#NECO.CO.USA.NOAM  
Please route replies to: whester@nyx.cs.du.edu or uunet!nyx!whester  
Public Access Unix @ University of Denver, Denver Colorado USA  
(no official affiliation with the above university)

-----

Date: (null)

From: (null)

You can download sm404.zip from the hamradio section of your favorite SIMTEL20 computer.

73,  
Bob K2PH

--

-----

Bob Schreibmaier K2PH | UUCP: ...!att!mtdcr!bob  
AT&T Bell Laboratories | Internet: bob@mtdcr.att.com  
Middletown, N.J. 07748 | ICBM: 40o21'N, 74o8'W

-----

Date: 22 Jul 1993 19:41 CDT

From: nntp.ucsb.edu!mustang.mst6.lanl.gov!nntp-server.caltech.edu!

elroy.jpl.nasa.gov!swrinde!menudo.uh.edu!jane.uh.edu!st2cm@network.ucsd.edu

To: info-hams@ucsd.edu

References <22i5vt\$9k6@techbook.techbook.com>, <CAIpCC.MsL@dartvax.dartmouth.edu>,  
<m4qvtdINNrqk@news.bbn.com>wrind

Subject : Re: STILL waiting for your license? Read this and weep!

In article <m4qvtdINNrqk@news.bbn.com>, levin@bbn.com (Joel B Levin) writes...

>In article <CAIpCC.MsL@dartvax.dartmouth.edu>, Kenneth.E.Harker@Dartmouth.Edu

(Kenneth E. Harker) writes:

>|> And I was actually considering joining the ARRL myself, but now I don't  
>|> think so. I

WHY would you want to join the ARRL, Ken? And do you really think they're  
too concerned that you're not, or if you did, your \$30 a year (or however  
much it NOW is) Is going to buy you any extra speed?

If you're dissatisfied with the service you're receiving, do what any other  
consumer would do: Go to a different session.

--Robert/WA3J

-----

End of Info-Hams Digest V93 #893

\*\*\*\*\*